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FINAL REPORT

Contract No. RD-53-SA  
Research Order No. 1RD-14

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Covering period from April 5, 1955 to June 5, 1955

COPY NO. 1

25X1

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**SECRET****INTRODUCTION**

This report summarizes the investigation of a method of electrical jamming of a crystal microphone. A method of jamming has been developed utilizing radio frequency fields which are amplitude modulated with noise. A series of tests have been conducted to determine the effectiveness of this method with different types of microphones, amplifiers, and cables.

**METHOD OF ATTACK**

The jamming method utilized the microphone cable as an antenna. Since the crystal microphone has a high impedance, an appreciable voltage may be induced on the microphone cable. In the vicinity of an RF field, a standing wave is set up along the shielded microphone cable. If this voltage is high enough, demodulation occurs at the amplifier input stage due to non-linearity. It was considered that if the RF signal were of sufficient intensity, the de-

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